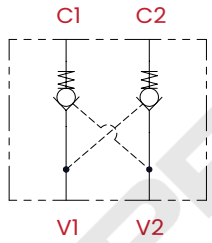
# VBD CHECK VALVES SAE

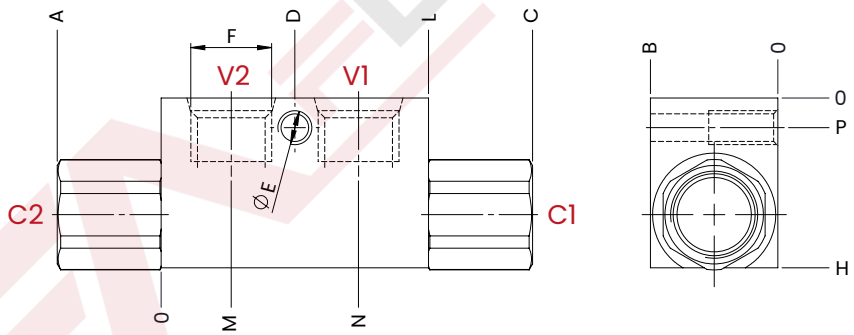
## DOUBLE ACTING PILOT CHECK VALVES

VBD pilot check valves are used to lock a double acting actuator in place in both directions, ensuring the load is locked



## HYDRAULIC CIRCUIT



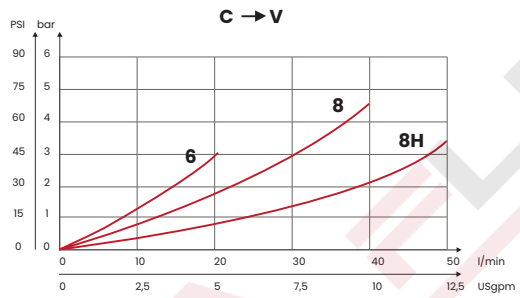

**mm** [Inches]

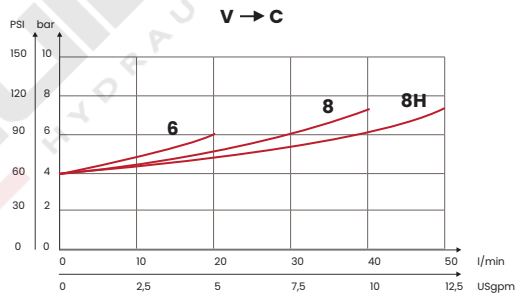
## TECHNICAL CHARACTERISTICS

**mm** [Inches]

| F | B | H | L | M | N | P | A | C | D | E |
|---|---|---|---|---|---|---|---|---|---|---|
| SAE 6 [9/16-18 UNF] | 30 [1,18] | 40 [1,57] | 63 [2,5] | 16,5 [0,65] | 46,5 [1,83] | 7 [0,27] | 24,5 [0,96] | 87,5 [3,44] | 31,5 [1,24] | M8 |
| SAE 8 [3/4-16 UNF] | | 45 [1,77] | 66 [2,6] | 15 [0,59] | 51 [2] | 6 [0,23] | 28 [1,10] | 94 [3,70] | 33 [1,3] | d.7 [0,27] |
| | | 50 [1,97] | 80 [3,15] | 20 [0,79] | 60 [2,36] | 15 [0,59] | 31,5 [1,24] | 111,5 [4,39] | 40 [1,57] | 8,5 [0,33] |
| **Steel body** | | | | | | | | | | |

## PERFORMANCES




## ORDERING CODE

| CODE | TYPE | F ports | MAX FLOW l/min [USgpm] | MAX PRESSURE bar [PSI] | PILOT RATIO | CRACKING PRESSURE bar [PSI] | WEIGHT kg [lb] |
|---|---|---|---|---|---|---|---|
| FA5029 | VBD1S | SAE 6 | 20 [5,3] | 350 [5075] | 1:5,5 | 4,5 [65] | 0,63 [1,39] |
| FA5030 | VBD2S | SAE 8 | 35 [9,2] | | | | 0,6 [1,32] |
| FA5059 | VBD2SH | | 50 [13,2] | | 1:5 | | 1 [2,20] |

UPDATE. May 2025 (v.06)



**Mineral oil**: DIN 51524 ISO 6743/4 | **Oil viscosity**: 15 to 250 cSt 15-250 mm2/s | **Oil temperature**: -4°F + 176°F -20°C +80°C | **Ambient temperature**: -4°F + 122°F -20°C +50°C | **Max contamination index with filter**: 5 to 250 cSt 15-250 mm2/s | It is necessary a filter use to protect the valve (advised filtration 15 µm) | **Max leakage**: 0,25 cm3/min - 5 drops/mi

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